

SPECIFICATIONS

Item	Model No.	Type	Low pressure	High pressure	
		NPN output	DP-001	DP-002	
		PNP output	DP-001-P	DP-002-P	
Type of pressure		Gauge pressure			
Rated pressure range		-100.0 to +100.0 kPa		0.000 to +1.000 MPa	
Set pressure range		$\left. \begin{array}{l} -101.0 \text{ to } +101.0 \text{ kPa} \\ -1.030 \text{ to } +1.030 \text{ kgf/cm}^2 \\ -1.010 \text{ to } +1.010 \text{ bar} \\ -14.65 \text{ to } +14.65 \text{ psi} \\ -756 \text{ to } +756 \text{ mmHg} \end{array} \right\}$		$\left. \begin{array}{l} -0.010 \text{ to } +1.010 \text{ MPa} \\ -0.1 \text{ to } +10.30 \text{ kgf/cm}^2 \\ -0.1 \text{ to } +10.10 \text{ bar} \\ -0.1 \text{ to } +146.5 \text{ psi} \end{array} \right\}$	
Pressure withstandability		500 kPa		1.5 MPa	
Applicable fluid		Air, non-corrosive gas			
Selectable unit		Low pressure type: kPa, kgf/cm ² , bar, psi, mmHg High pressure type: MPa, kgf/cm ² , bar, psi			
Supply voltage		12 to 24 V DC ± 10 % Ripple P-P 10 % or less			
Power consumption		30 mA or less			
Comparative output		<NPN output type> NPN open-collector transistor		<PNP output type> PNP open-collector transistor	
		<ul style="list-style-type: none"> • Maximum sink current: 50 mA • Applied voltage: 30 V DC or less (between comparative output and 0 V) • Residual voltage: 2 V or less (at 50 mA sink current) 		<ul style="list-style-type: none"> • Maximum source current: 50 mA • Applied voltage: 30 V DC or less (between comparative output and +V) • Residual voltage: 2 V or less (at 50 mA source current) 	
		Output operation		Selectable either NO or NC by key operation	
		Hysteresis		Minimum 2 digits (variable)	
		Repeatability		± 0.2 % F.S. (within ± 4 digits)	± 0.4 % F.S. (within ± 4 digits)
Response time		2.5 ms, 25 ms, 250 ms, selectable by key operation			
Short-circuit protection		Incorporated			
Display		3 + 1/2 digits, 3-color (white / red / pink) LCD display (Display update period: 250 ms)			
Displayable pressure range		$\left. \begin{array}{l} -101.0 \text{ to } +101.0 \text{ kPa} \\ -1.030 \text{ to } +1.030 \text{ kgf/cm}^2 \\ -1.010 \text{ to } +1.010 \text{ bar} \\ -14.65 \text{ to } +14.65 \text{ psi} \\ -756 \text{ to } +756 \text{ mmHg} \end{array} \right\}$		$\left. \begin{array}{l} -0.010 \text{ to } +1.010 \text{ MPa} \\ -0.1 \text{ to } +10.30 \text{ kgf/cm}^2 \\ -0.1 \text{ to } +10.10 \text{ bar} \\ -0.1 \text{ to } +146.5 \text{ psi} \end{array} \right\}$	
Environmental resistance	Protection	IP40 (IEC)			
	Ambient temperature	0 to +50 °C +32 to +122 °F (No dew condensation allowed), Storage: -10 to +60 °C +14 to +140 °F			
	Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH			
	Voltage withstandability	500 V AC for one min. between all supply terminals connected together and enclosure			
	Insulation resistance	50 M Ω or more with 500 V DC megger between all supply terminals connected together and enclosure			
	Vibration resistance	10 to 150 Hz frequency, amplitude 0.75 mm 0.030 in or maximum acceleration 49 m/s ² , in X, Y and Z directions for two hours each			
	Shock resistance	100 m/s ² acceleration (10 G approx.) in X, Y and Z directions for three times each			
Pollution degree		2			
Overvoltage category		I			
Usable altitude		2,000 m 6,562 ft or less			
Temperature characteristics (+20 °C standard)		+10 to +40 °C +50 to +104 °F : Within ± 1 % F.S. 0 to +50 °C 32 to +122 °F : Within ± 2.5 % F.S.	+10 to +40 °C +50 to +104 °F : Within ± 2 % F.S. 0 to +50 °C 32 to +122 °F : Within ± 5 % F.S.		
Grounding method		Floating			
Pressure port		M5 female thread			
Material		Enclosure: PBT (glass fiber reinforced), LCD display: Acrylic, Pressure port: Brass (nickel plated), Mounting threaded part: Brass, O-ring: Nitrile rubber (NBR), Key section: Polycarbonate			
Weight		25 g approx.			
Accessory		CN-14A-C2 (Connector attached cable 2 m 6.562 ft): 1 pc.			

Note: Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C **+68 °F**.



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